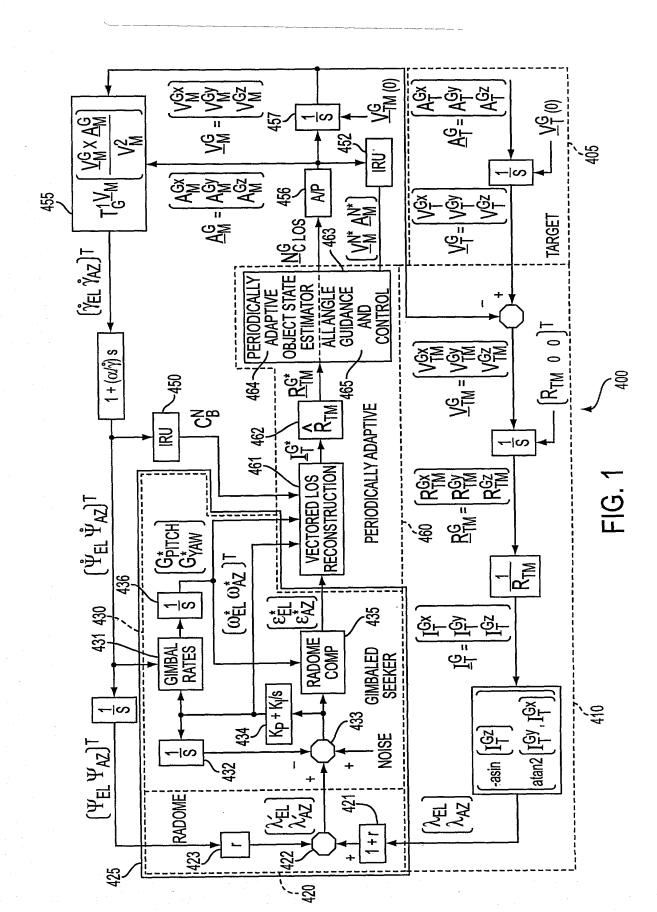
TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ

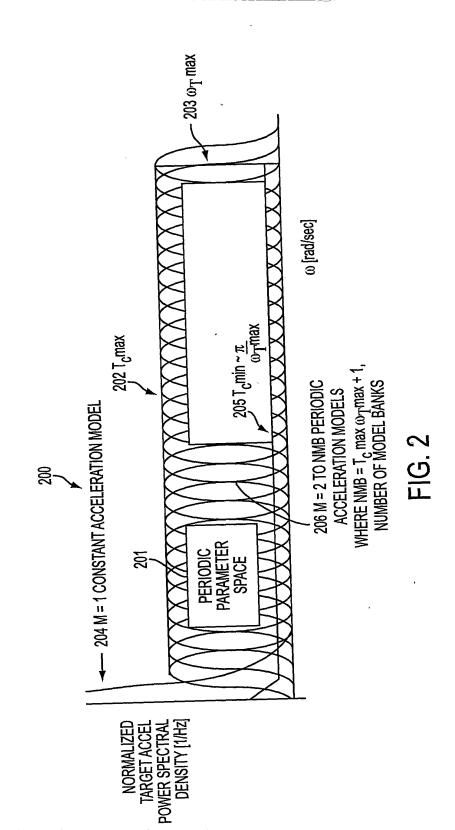
APPLICATION SERIAL NO: 09/955,151 SHEET 1 of 12



APPLN. FILING DATE: SEPTEMBER 19, 2001
TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ APPLICATION SERIAL NO: 09/955,151

SHEET 2 of 12



TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ

APPLICATION SERIAL NO: 09/955,151

SHEET 3 of 12

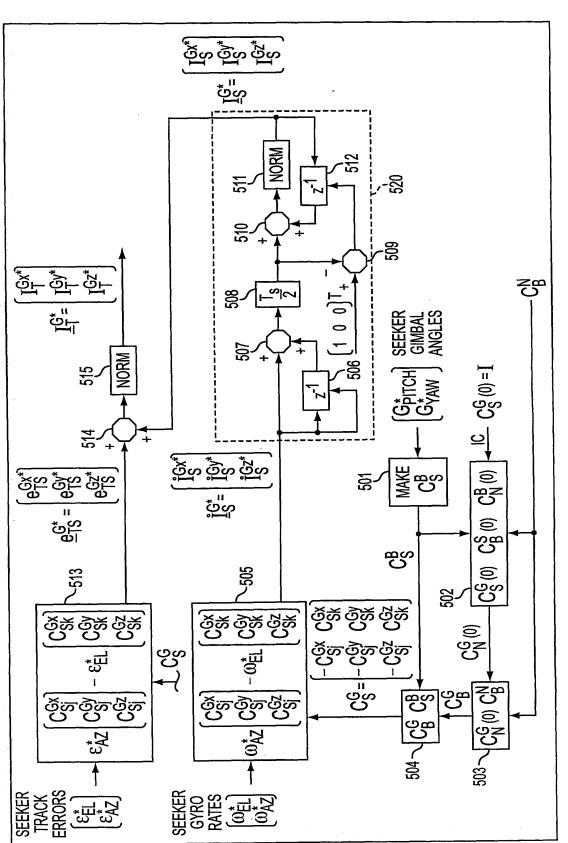


FIG. 3

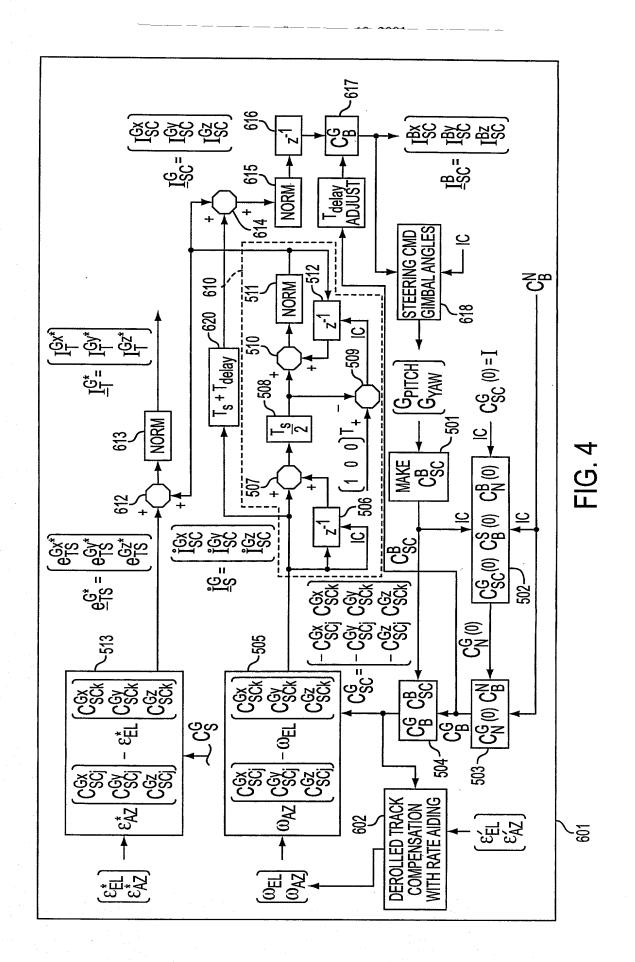
APPLN. FILING DATE: SEPTEMBER 19, 2001

TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ

APPLICATION SERIAL NO: 09/955,151

SHEET 4 of 12

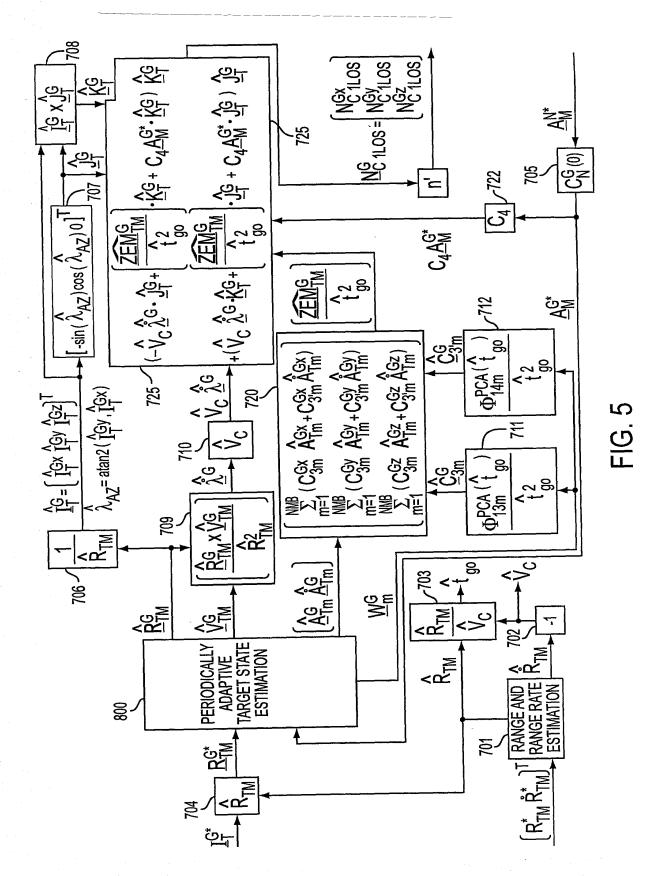


TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ

APPLICATION SERIAL NO: 09/955,151

SHEET 5 of 12



TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ

APPLICATION SERIAL NO: 09/955,151 SHEET 6 of 12

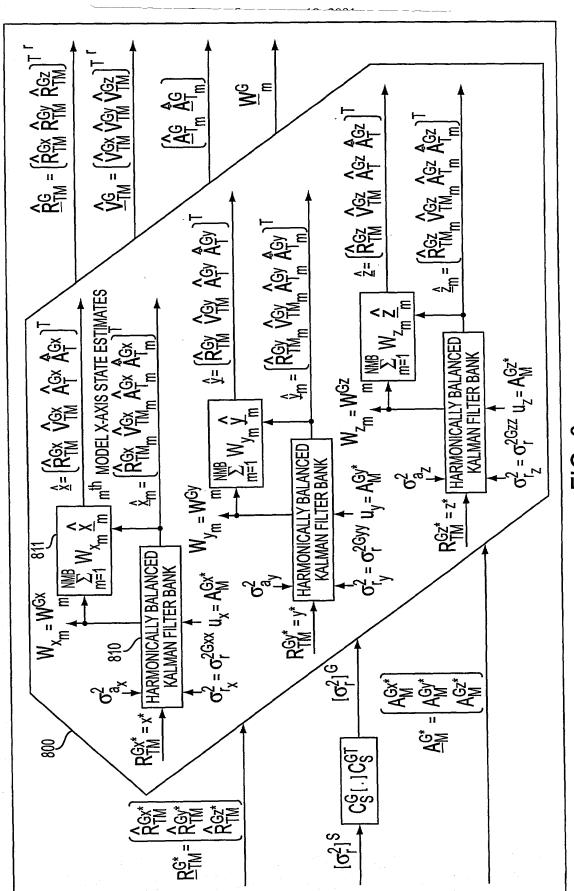


FIG. 6

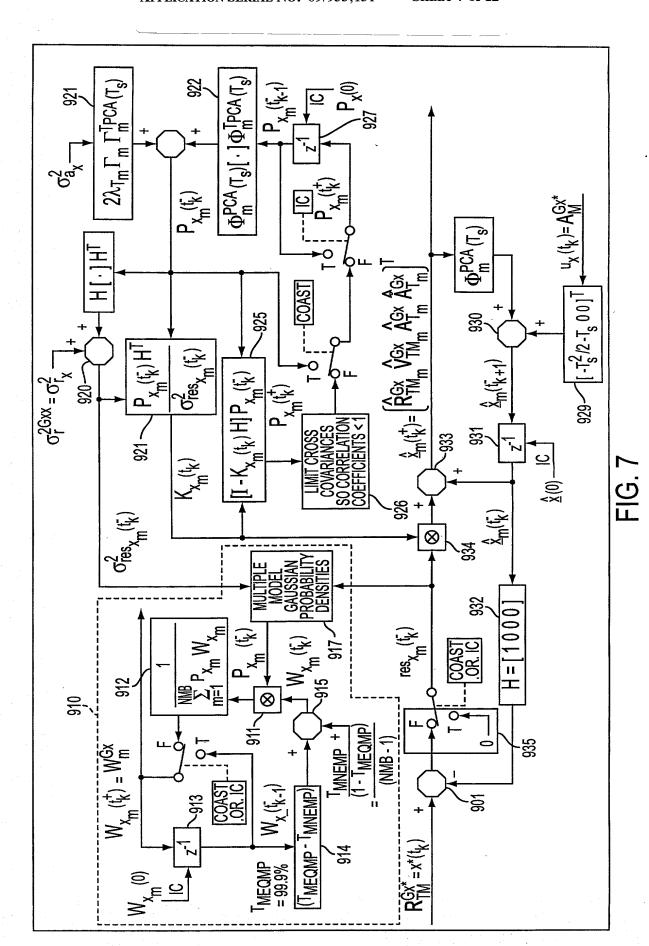
Mar Ame offer 0

with the train with the train of the train.

APPLN. FILING DATE: SEPTEMBER 19, 2001

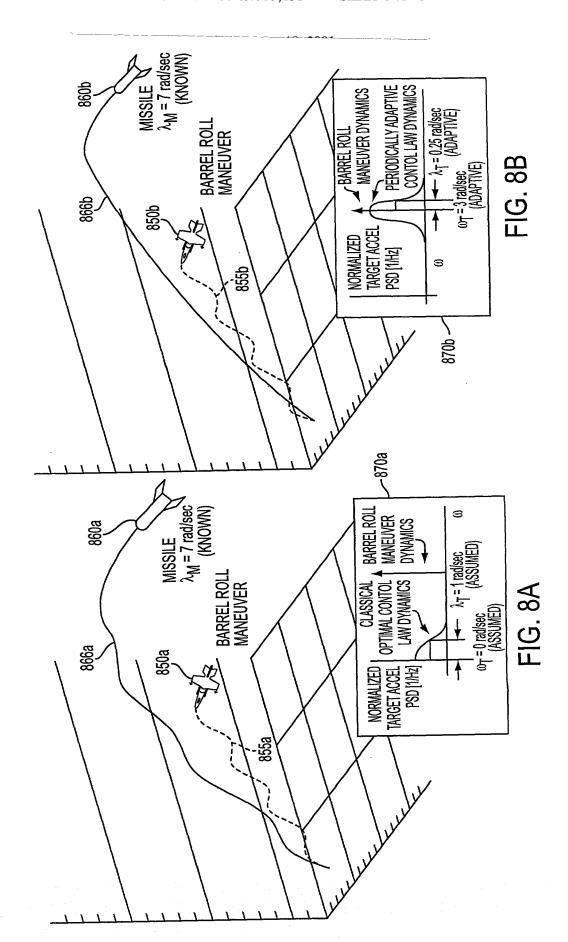
TITLE: SYSTEM AND METHOD FOR . . . CONTROL

Inventor(s): Randall J. MURAVEZ Application Serial No: 09/955,151 **SHEET 7 of 12**



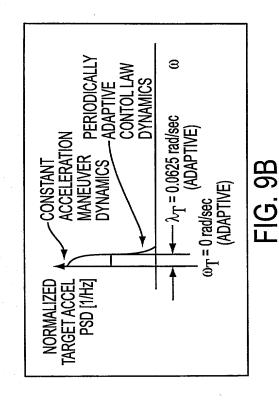
TITLE: SYSTEM AND METHOD FOR . . . CONTROL

Inventor(s): Randall J. MURAVEZ APPLICATION SERIAL NO: 09/955,151 **SHEET 8 of 12**



TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ APPLICATION SERIAL NO: 09/955,151 SHEET 9 of 12



WHITE NOISE CONSTANT VELOCITY DYNAMICS 3 $1/\lambda_{
m T} = 3 \, {
m rad/sec}$ (ADAPTIVE) PERIODICALLY ADAPTIVE CONTOL LAW DYNAMICS TARGET ACCEL $\dot{\omega}_{\mathrm{T}}$ = 0 rad/sec (ADAPTIVE) NORMALIZED PSD [1/Hz]

PERIODICALLY ADAPTIVE CONTOL LAW DYNAMICS $\sim \lambda_{\rm T} = 0.25 \, {\rm rad/sec}$ (ADAPTIVE) · BARREL ROLL MANEUVER DYNAMICS $\dot{\omega}_{\mathrm{T}} = 3 \, \mathrm{rad/sec}$ (ADAPTIVE) FIG. 9A NORMALIZED TARGET ACCEL PSD [1/Hz] 3

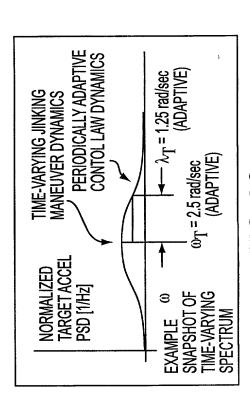


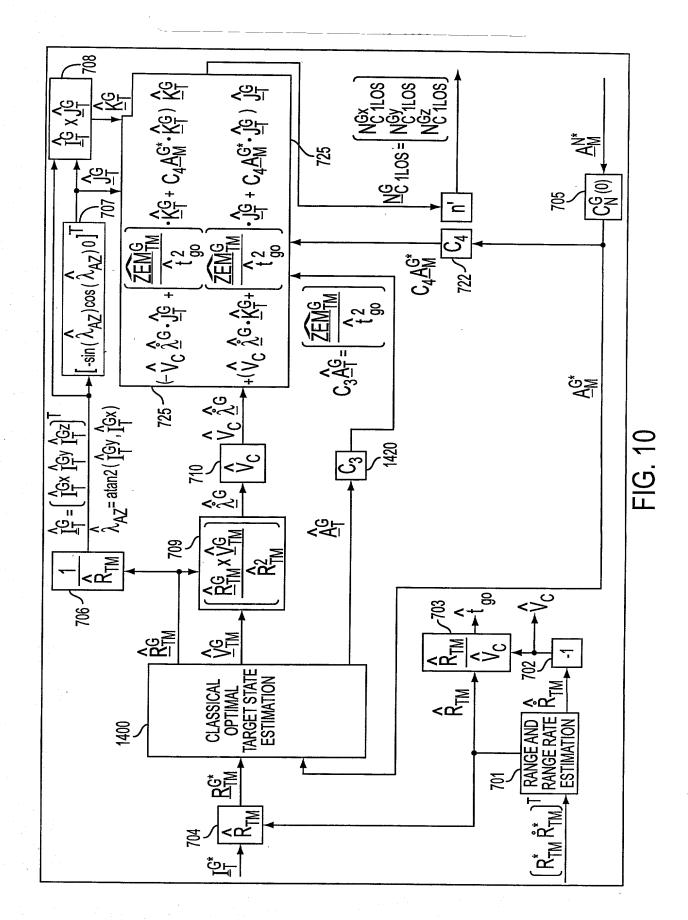
FIG. 9C

FIG. 9D

TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ

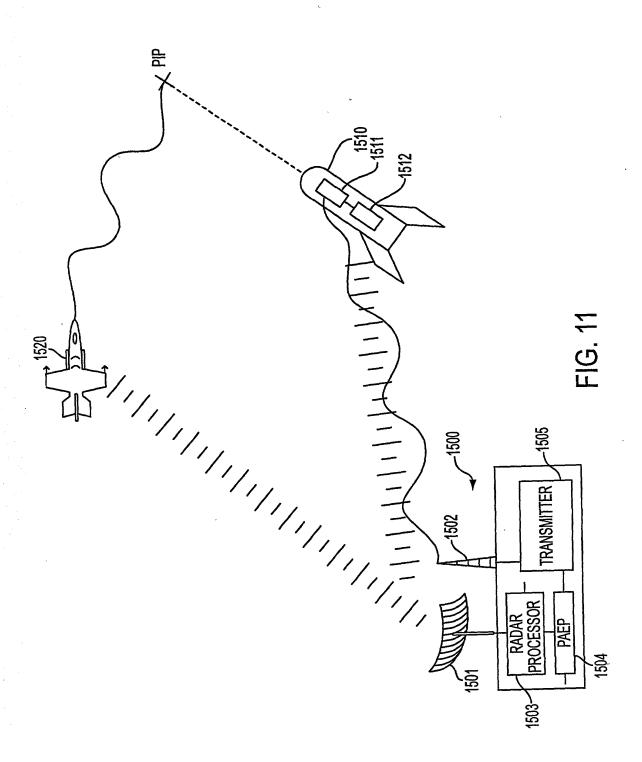
APPLICATION SERIAL NO: 09/955,151 SHEET 10 of 12



TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ

APPLICATION SERIAL NO: 09/955,151 SHEET 11 of 12



The first than the first that

diam's

APPLN. FILING DATE: SEPTEMBER 19, 2001

TITLE: SYSTEM AND METHOD FOR . . . CONTROL

INVENTOR(S): RANDALL J. MURAVEZ

APPLICATION SERIAL NO: 09/955,151 SHEET 12 of 12

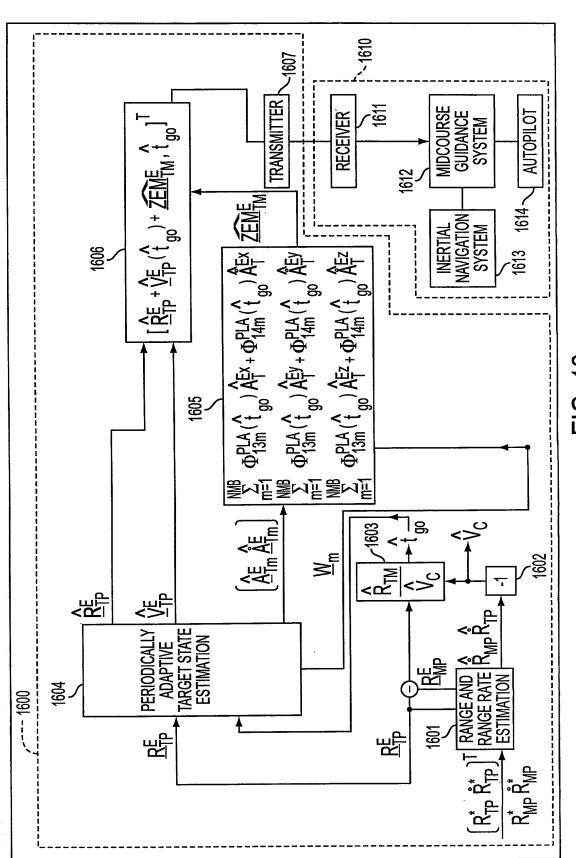


FIG. 12